4.4

Tables

TABLE 4.4-1
SUMMARY OF GROUND WATER ELEVATIONS AND APPARENT LIGHT NON-AQUEOUS PHASE LIQUID THICKNESS
IAOC F1 - 40-ACRE TANKFIELD

EXXONMOBIL ENVIRONMENTAL AND PROPERTY SOLUTIONS / BAYWAY REFINERY COMPLEX
LINDEN, NEW JERSEY

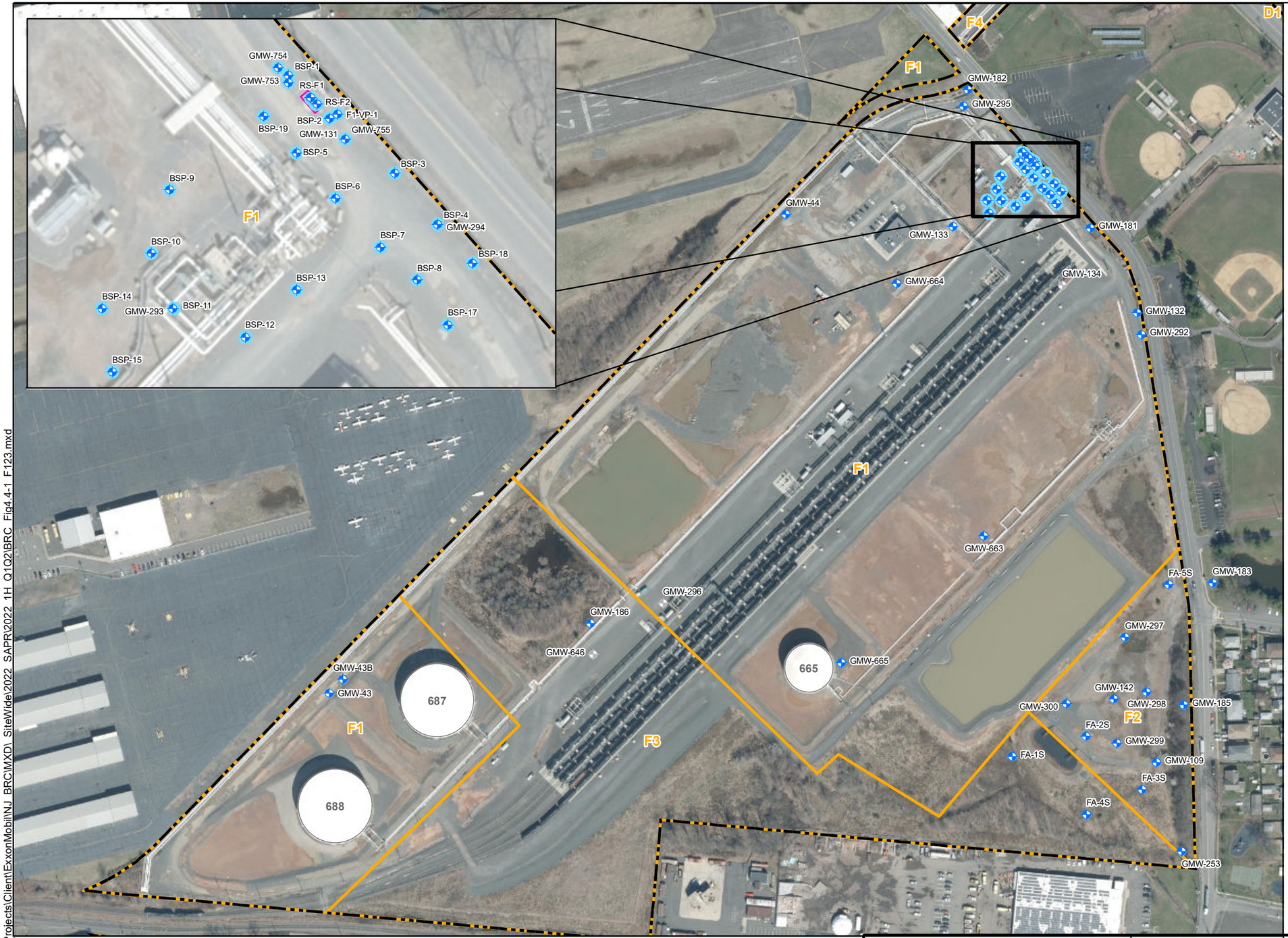
Monitoring Well ID	Date	Top of Casing Elevation (FMSL)	Depth to Water (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected GW Elevation (FMSL)	Comments
BSP-3	01/03/2022	13.68	2.12	ND	ND	11.56	
	01/17/2022	13.68	2.39	ND	ND	11.29	
	02/03/2022	13.68	2.13	2.13	FILM	11.55	
	02/21/2022	13.68	2.07	ND	ND	11.61	
	06/21/2022	13.68	2.10	ND	ND	11.58	
BSP-11	01/03/2022	13.26	0.01	ND	ND	13.25	
	01/17/2022	13.26	0.01	ND	ND	13.25	
	02/03/2022	13.26	0.06	0.06	FILM	13.20	
	02/21/2022	13.26	0.24	ND	ND	13.02	
	06/21/2022	13.26	0.82	ND	ND	12.44	
BSP-12	01/03/2022	14.84	5.03	ND	ND	9.81	
	01/17/2022	14.84	4.46	4.46	FILM	10.38	
	02/03/2022	14.84	5.03	5.03	FILM	9.81	
	02/21/2022	14.84	4.44	ND	ND	10.40	
	06/21/2022	14.84	4.80	ND	ND	10.04	
BSP-13	01/03/2022	15.57	3.23	ND	ND	12.34	
	01/17/2022	15.57	3.53	ND	ND	12.04	
	02/03/2022	15.57	3.41	3.41	FILM	12.16	
	02/21/2022	15.57	3.78	ND	ND	11.79	
	06/21/2022	15.57	4.01	ND	ND	11.56	
BSP-15	02/03/2022	13.02	0.02	0.02	FILM	13.00	
	02/21/2022	13.02	0.02	0.01	0.01	13.01	
	06/21/2022	13.02	0.78	ND	ND	12.24	
BSP-19	01/03/2022	13.31	0.88	ND	ND	12.43	
	01/17/2022	13.31	0.76	ND	ND	12.55	
	02/21/2022	13.31	1.38	ND	ND	11.93	
	06/21/2022	13.31	1.03	ND	ND	12.28	
RS-F1	01/03/2022	14.09	0.69	ND	ND	13.40	
	01/17/2022	14.09	0.01	ND	ND	14.08	
	02/03/2022	14.09	1.39	1.39	FILM	12.70	
	02/21/2022	14.09	1.17	ND	ND	12.92	
	06/21/2022	14.09	1.65	ND	ND	12.44	
RS-F2	01/03/2022	13.99	0.60	ND	ND	13.39	
	01/17/2022	13.99	0.01	ND	ND	13.98	
	02/03/2022	13.99	1.29	1.29	FILM	12.70	
	02/21/2022	13.99	1.04	ND	ND	12.95	
	06/21/2022	13.99	1.48	ND	ND	12.51	

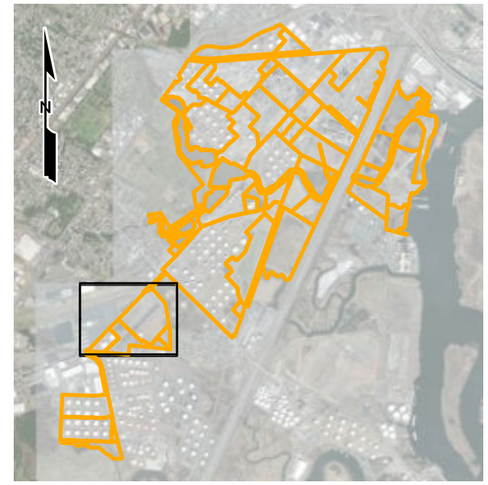
Notes:

FMSL	Feet above mean sea level
LNAPL	Light non-aqueous phase liquid
GW	Ground water
ND	Not detected
NG	Not gauged - well inaccessible at the time of the event
FILM	Apparent LNAPL Thickness less than 0.01 feet

If LNAPL is detected, Ground Water Elevation is corrected using the following formula:
Corrected Ground Water Elevation = (Top of Casing Elevation - Depth to Water) + (Specific Gravity x Apparent LNAPL Thickness)
Specific Gravity = 0.90

Figures





LEGEND

- ABANDONED MONITORING WELL
- MONITORING WELL
- LNAPL ACCUMULATION TRENCH
- GAUGED QUARTERLY; PRODUCT REMOVED VIA ABSORBENT SOCK
- TANK
- PROPERTY BOUNDARY
- IAOC BOUNDARY

REFERENCES

1. MAP AND WATER BODY LIMITS DERIVED FROM FIGURE ENTITLED "WETLAND DELINEATION SURVEY, BAYWAY REFINERY, CITY OF LINDEN, UNION COUNTY, NEW JERSEY", PREPARED BY KELLER & KIRKPATRICK INC., DATED 9-3-15, LAST UPDATED 9-21-16.
2. BASE MAP TOPOGRAPHIC FEATURES TAKEN FROM A MAP PREPARED BY ATLANTIS AERIAL SURVEY CO., INC. FROM PHOTOGRAPHY DATED OCTOBER 3, 2003.

   HORIZONTAL DATUM: NAVD 1983
   VERTICAL DATUM: NGVD 1929
   DISTANCE MEASUREMENTS ARE EXPRESSED IN U.S. FEET
3. PROPERTY BOUNDARY DERIVED FROM METES AND BOUNDS TAKEN FROM SURVEY, PREPARED BY KELLER & KIRKPATRICK INC., DATED 3-1-93, LAST UPDATED 4-5-93.

NOTES

1. IAOC DESIGNATION "H" INCLUDES SURFACE WATER BODIES WITHIN THE REFINERY UP TO THE CONFLUENCE OF THE ARTHUR KILL. THE ARTHUR KILL AND PILES CREEK ARE NOT INCLUDED AS AN IAOC.
2. IAOC BOUNDARY DESIGNATION LINES ABUTTING THE PROPERTY BOUNDARY SHALL BE CONSIDERED SYNONYMOUS WITH THE PROPERTY BOUNDARY.
3. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID.

250 125 0 250 Feet

1 inch = 250 feet

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

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40 ACRE TANKFIELD
LNAPL GAUGING AND RECOVERY PROGRAM

BAYWAY REFINERY COMPLEX
LINDEN, NEW JERSEY
SEMIANNUAL PROGRESS REPORT
JANUARY THROUGH JUNE 2022

FIGURE
4.4-1

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